MEAN WELL

40W DC-DC Regulated Single Output Converter SKA40 series

■ Features :

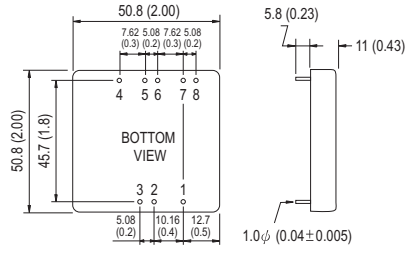
- 2:1 wide input range
- High efficiency up to 92%
- 1500VDC I/O isolation
- Built-in EMI filter
- Built-in remote ON / OFF control
- Built-in remote sense
- Trimming ouput ±10%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Output 3.3V/9V available
- Approvals: FCC / CE
- 2 years warranty

SPECIFICATION

ORDER NO.		SKA40A-05	SKA40B-05	SKA40C-05	SKA40A-12	SKA40B-12	SKA40C-12	SKA40A-15	SKA40B-15	SKA40C-15
OUTPUT	DC VOLTAGE	5V			12V			15V		
	CURRENT RANGE	0.7 ~ 7A			0.3 ~ 3.33A			0.26 ~ 2.67A		
	RATED POWER	35W			40W			40W		
	RIPPLE & NOISE (max.) Note.2	60mVp-p			80mVp-p			100mVp-p		
	LINE REGULATION Note.3	±0.5%								
	LOAD REGULATION Note.4	±0.5%								
	VOLTAGE ACCURACY	±2.0%								
	SWITCHING FREQUENCY	200KHz min.								
	EXTERNAL CAPACITANCE LOAD (max.)	1000uF								
	EXTERNAL TRIM Adj. RANGE(Typ.)	±10%								
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC								
	EFFICIENCY (Typ.)	91%	92%	91%	90%	90%	88.5%	90%	90.5%	90%
	DC CURRENT	Full load	A: 3850mA B: 1900mA C: 1000mA							
		No load	A: 150mA B: 100mA C: 65mA							
	FILTER	Pi network								
	REMOTE CONTROL	Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short								
	PROTECTION	Fuse recommended								
PROTECTION (Note. 5)	OVER CURRENT	110% ~ 180% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	All output equipped with short circuit								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	5Vo : 7V ~ 8.95V ; 12Vo : 15V ~ 19.2V ; 15Vo : 18V ~ 23.3V Protection type : Clamp by TVS diode								
ENVIRONMENT	WORKING TEMP.	-40 ~ +80℃ (Refer to output load derating curve)								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-55 ~ +105℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03% / ℃ (0 ~ 50℃)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC								
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH								
	EMC EMISSION	Compliance to EN55022 Class A, FCC part 15 Class A								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A								
OTHERS	DIMENSION	50.8*50.8*11.0 mm or 2"*2"*0.43" inch (L*W*H)								
	WEIGHT	60g								

■ Mechanical Specification

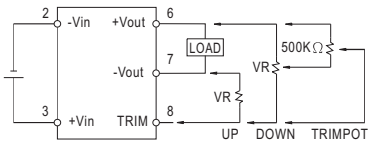
Unit:mm(inch)



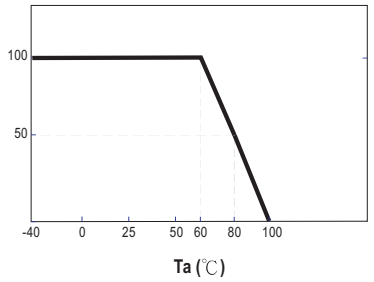
■ Pin Configuration

Pin No.	Output	Pin No.	Output
1	R.C	5	+R.S
2	-Vin	6	+Vout
3	+Vin	7	-Vout
4	-R.S	8	TRIM

■ External Output Trimming



■ Derating Curve



NOTE

1.All parameters are specified at normal input, rated load, 25℃ 70% RH ambient.
2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
3.Line regulation is measured from low line to high line at rated load.
4.Load regulation is measured from 10% to 100% rated load.
5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

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